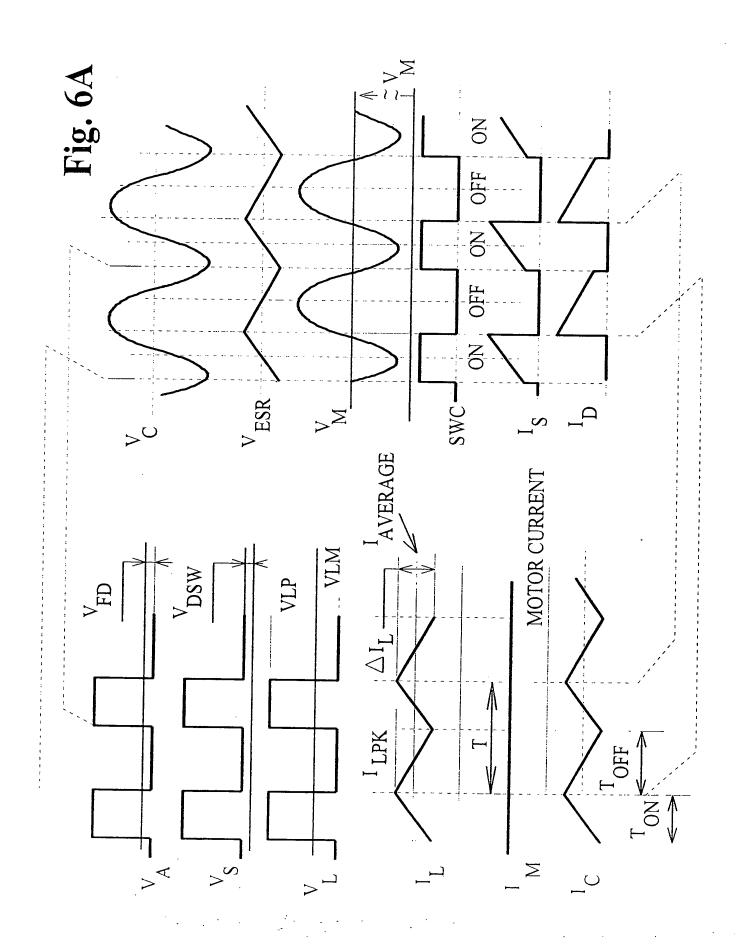


Fig. (



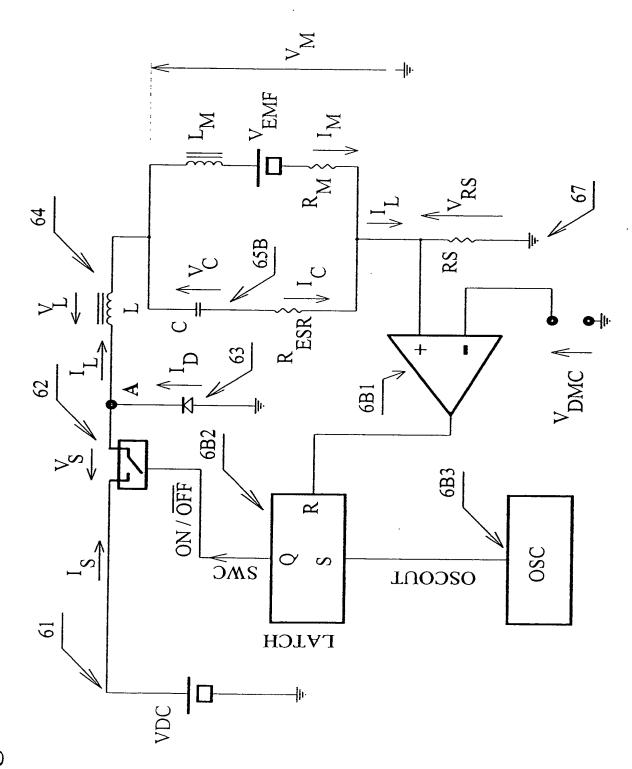
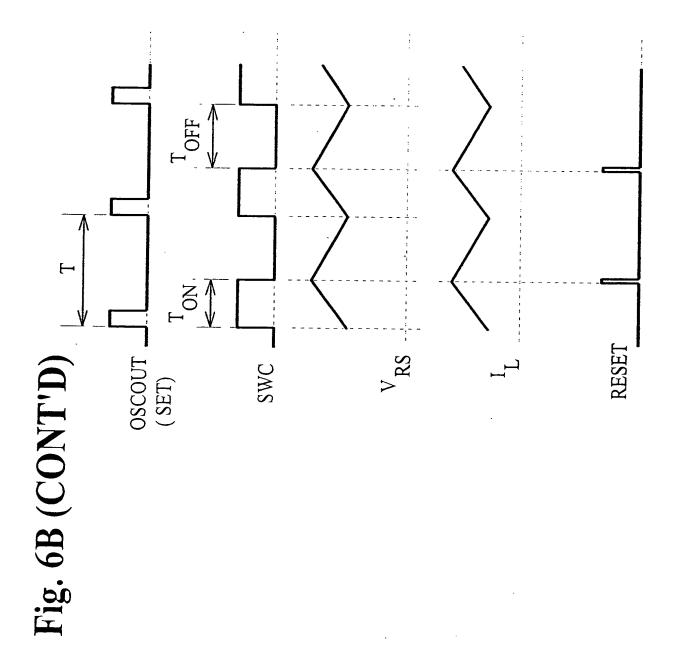


Fig. 6F



1)
$$V_S = V_{DC} - V_A$$

$$2) \quad V_L = V_A - V_M$$

3)
$$V_M \cong I_M \cdot R_M + Vemf$$

4) Vem
$$f = Kv \cdot \omega_M$$

$$I_{S} = I_{L}$$

$$6) \quad I_L = I_C + I_M$$

$$7) I_{L} = V_{RS}/R_{S}$$

8)
$$V_M = V_C + I_C \cdot R_{ESR}$$

9)
$$T = T_{ON} + T_{OFF}$$

10)
$$I_L = I_{AVERAGE} + I_L(t)$$

11)
$$I_{LPK} = I_{AVERAGE} + (\Delta I_L / 2)$$

12)
$$I_{LMIN} = I_{AVERAGE} - (\Delta I_L / 2)$$

13)
$$I_{M} = I_{AVERAGE}$$

14)
$$I_C = I_L(t)$$

15)
$$I_L(t) = \frac{1}{L} \int V_L(t) dt$$

16)
$$I_{L} = \frac{V_{L}}{L} \quad t = \frac{V_{A} - V_{M}}{L} \quad t$$

$$I_{L} = \frac{V_{DC} - V_{S} - V_{M}}{L}$$

18)
$$\Delta I_{L} = \frac{V_{DC} - V_{S} - V_{M}}{L}$$

19)
$$|\Delta I_L| = \frac{V_M + V_{FD}}{L} T_{OFF}$$

20)
$$T_{ON} = \frac{V_{DC} - V_S - V_M}{L} = \frac{V_M + V_{FD}}{L}$$

21)
$$T_{ON}$$
 ($V_{DC} - V_M$) $\cong V_M$ T_{OFF}

22)
$$V_{M} \cong V_{DC} \frac{T_{ON}}{T_{ON} + T_{OFF}} = V_{DC} \frac{T_{ON}}{T}$$

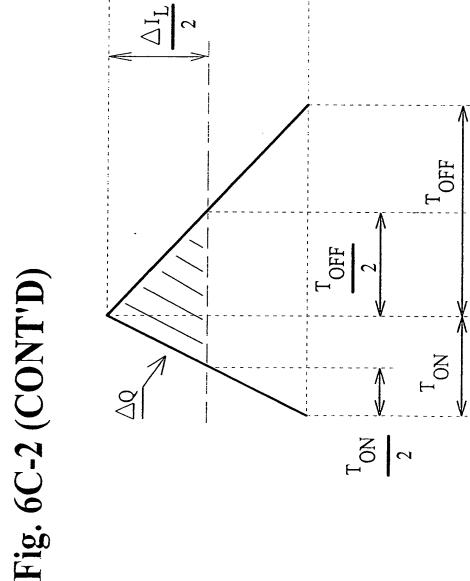
$$\Delta Q = \frac{1}{2} \frac{T}{2} \frac{\Delta I_L}{2}$$

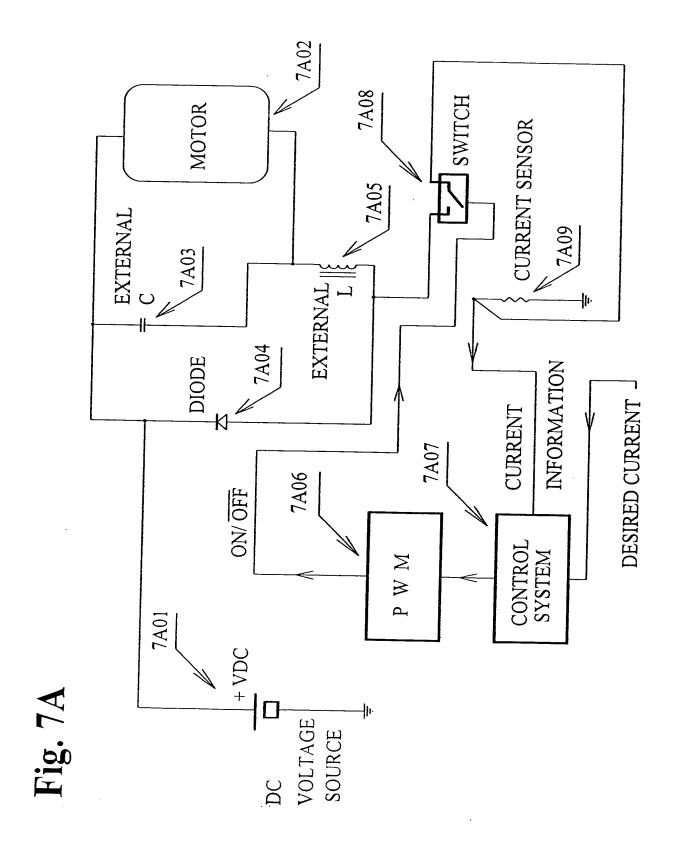
24)
$$\Delta V_{CC} = \frac{\Delta Q}{C} = \frac{\Delta I_L}{f \ 8 \ C}$$

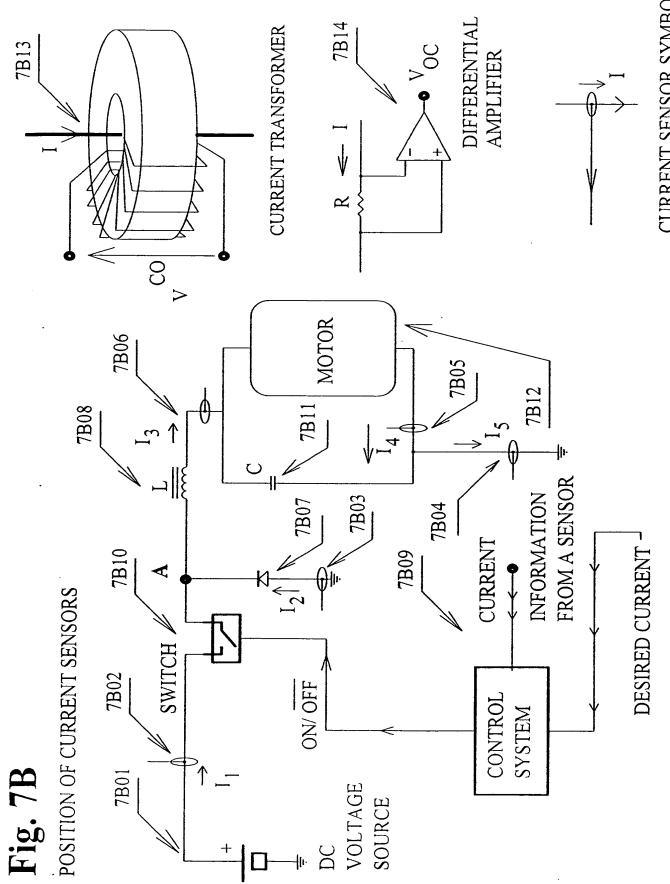
25)
$$\Delta V_C = \Delta V_{CC} + \Delta I_L R_{ESR}$$

26)
$$\Delta V_C \ll V_M$$

FIG. 6C-2







CURRENT SENSOR SYMBOL

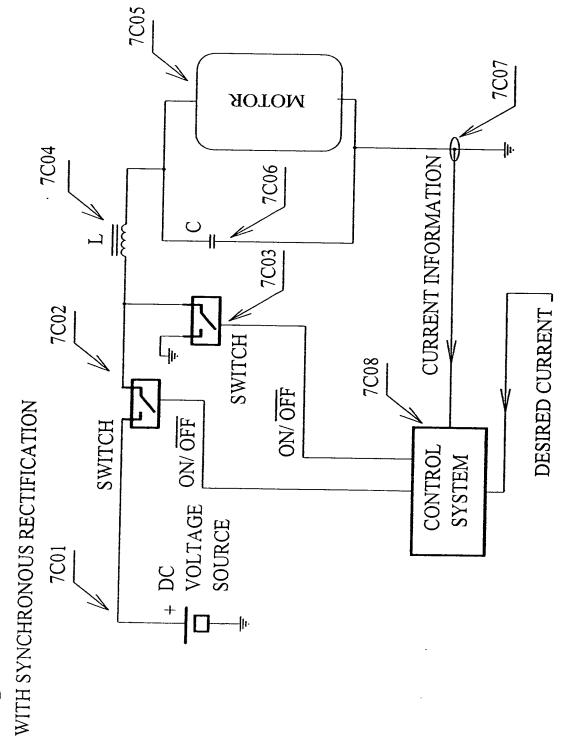
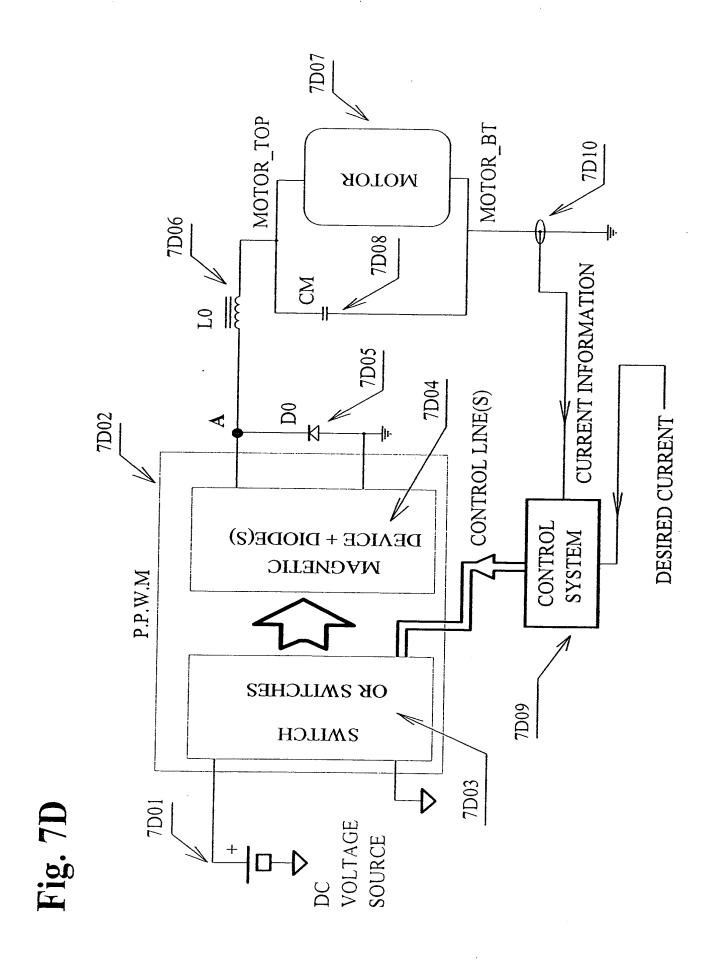
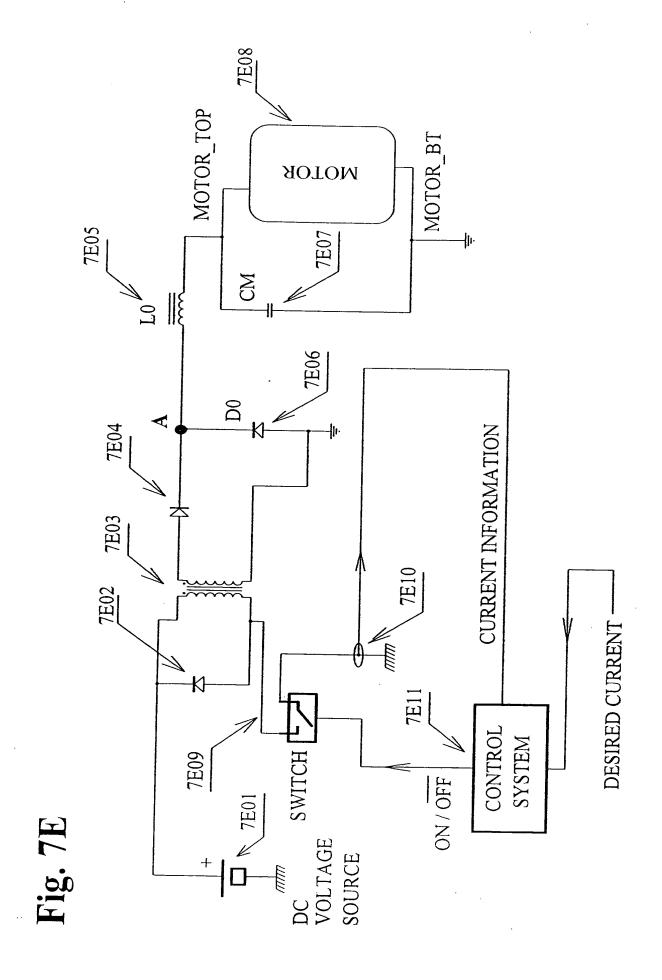
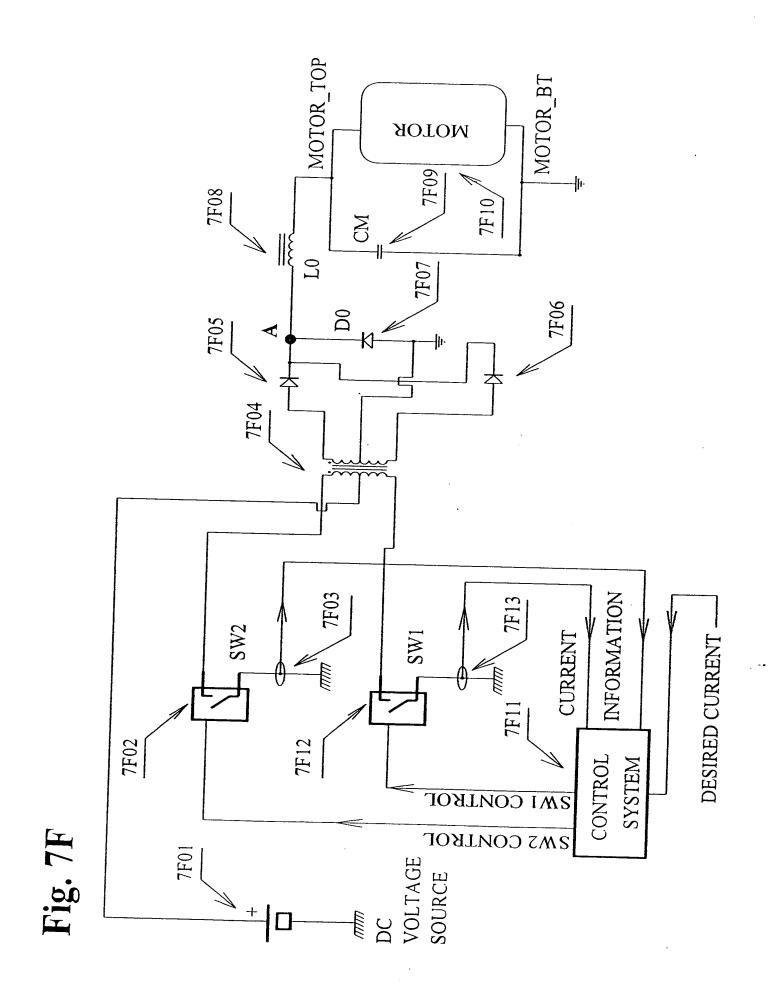
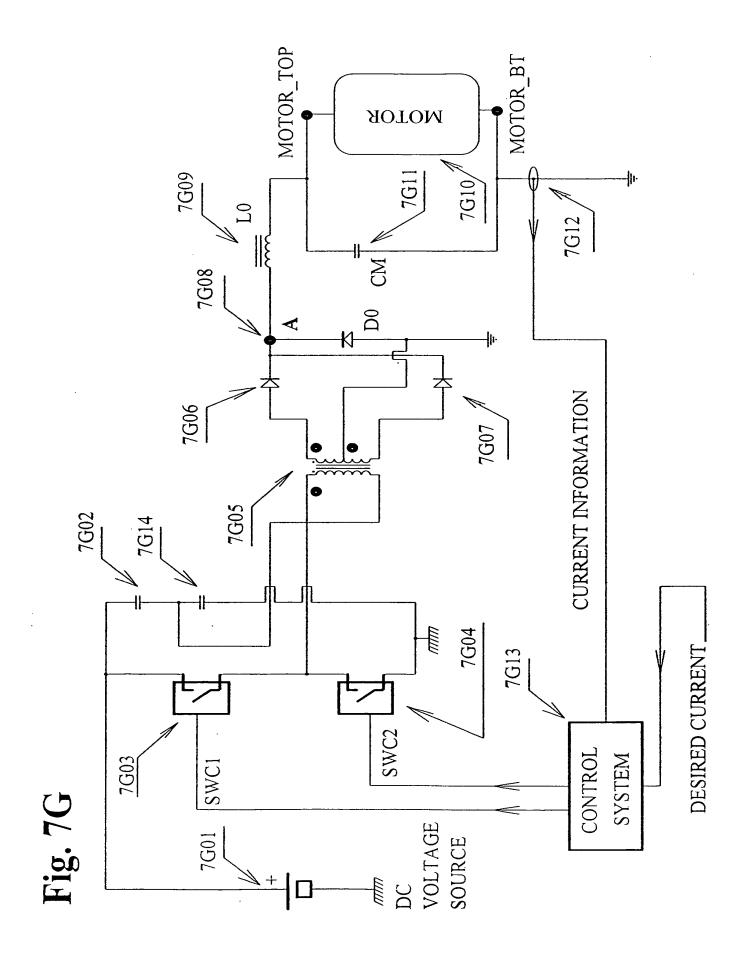


Fig. 7C









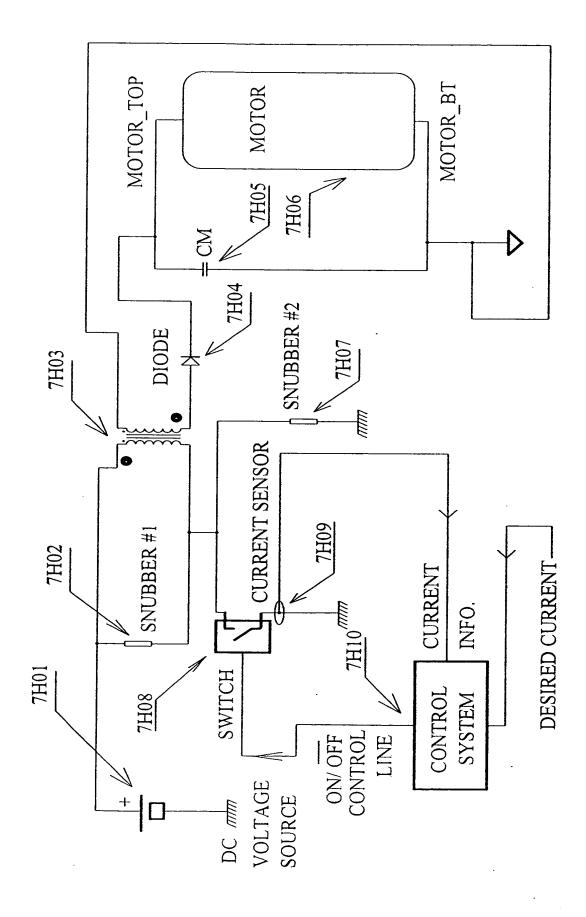
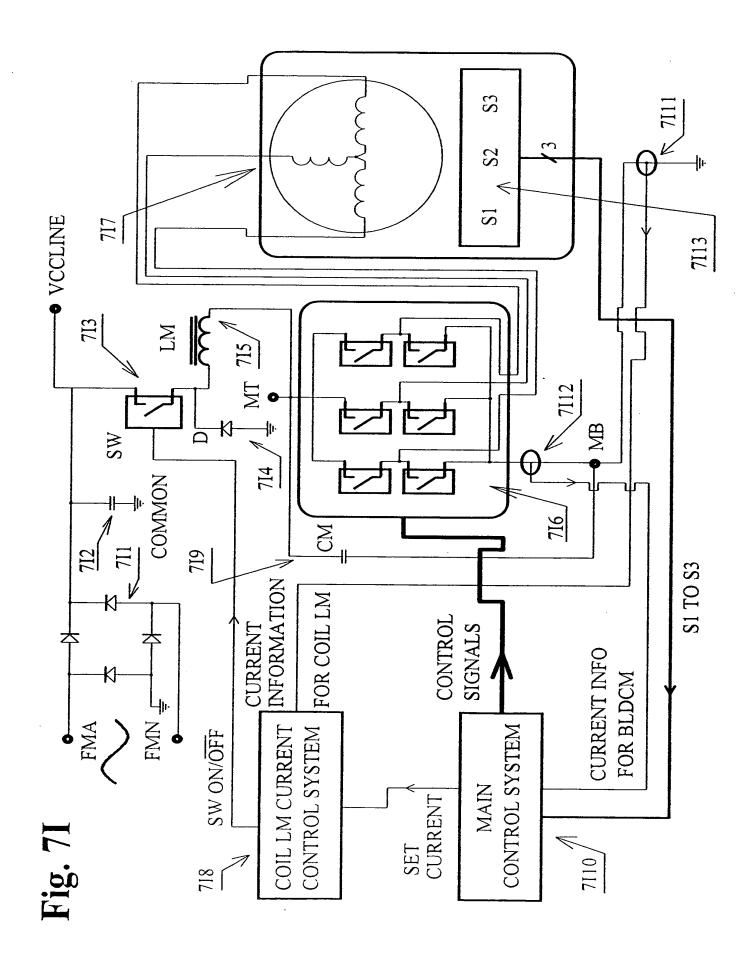
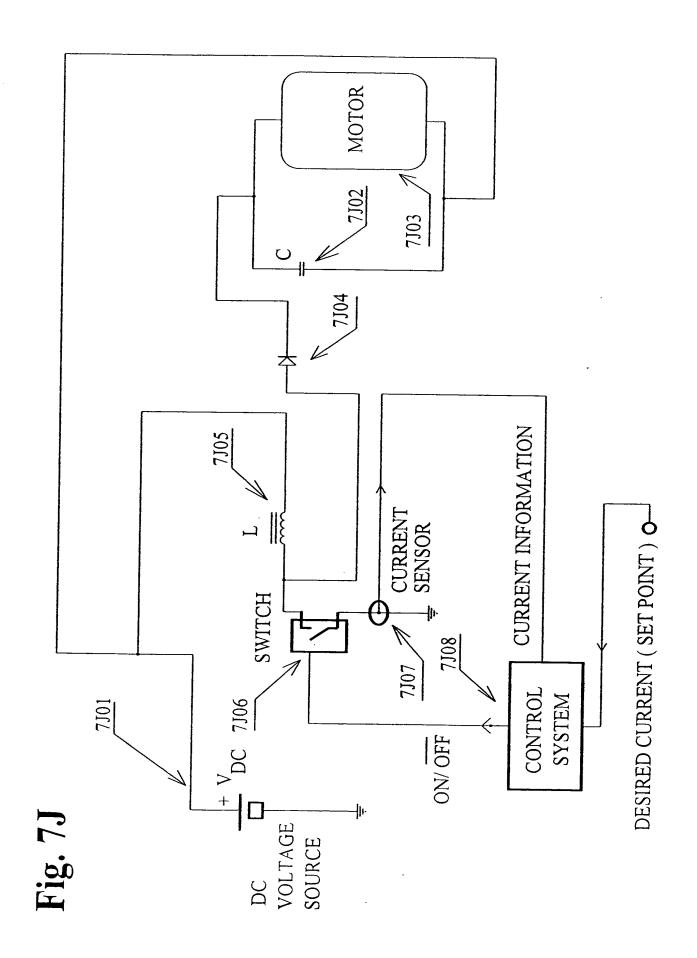
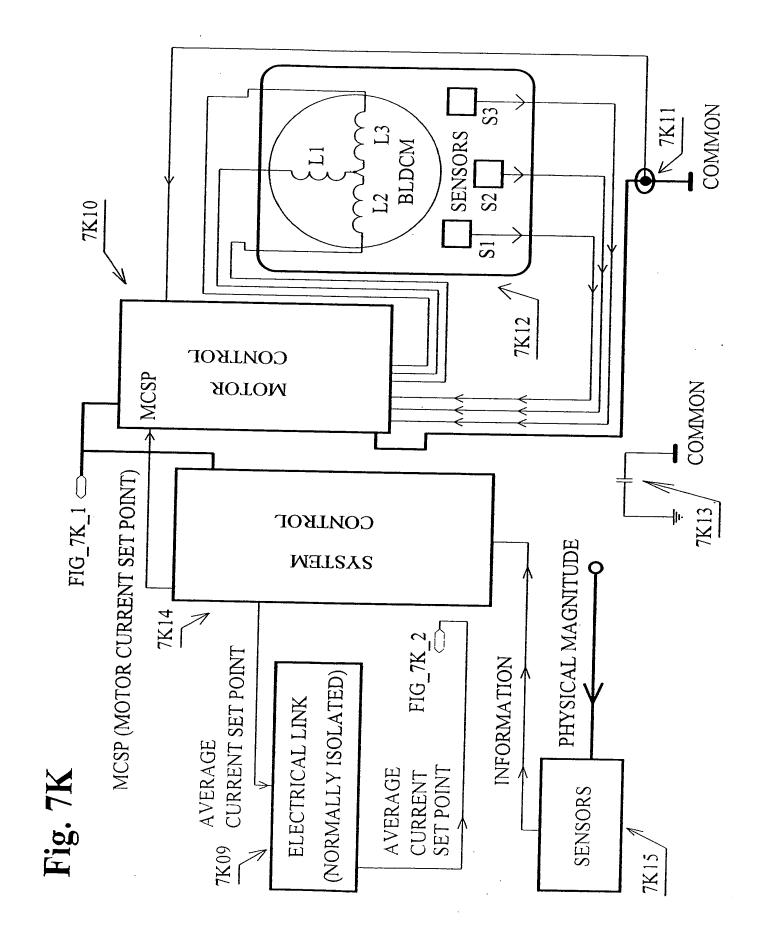


Fig. 7H

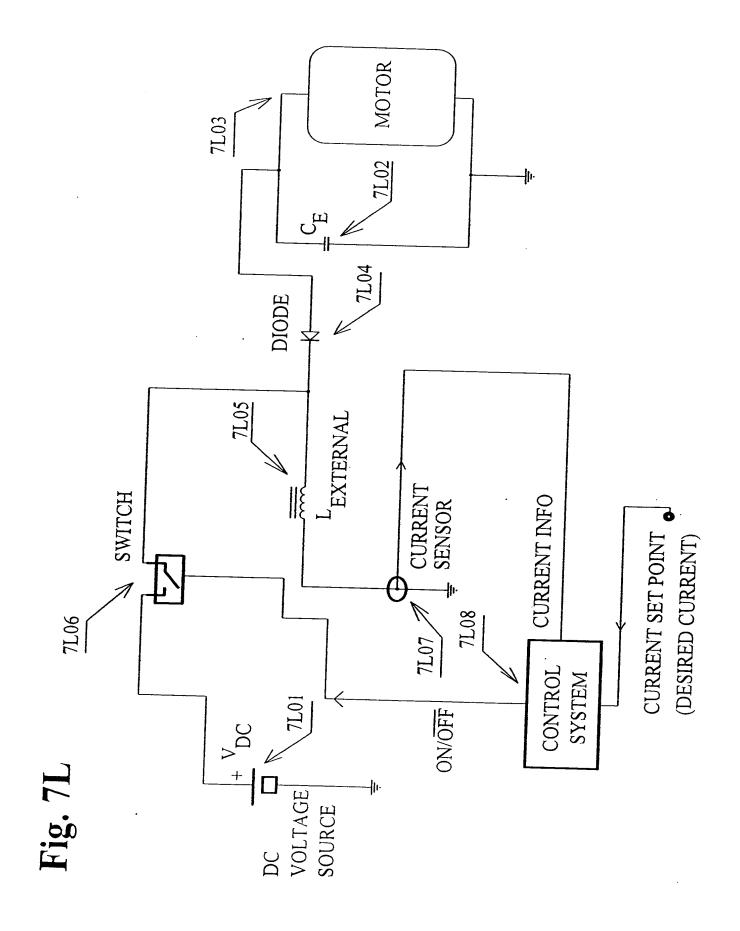


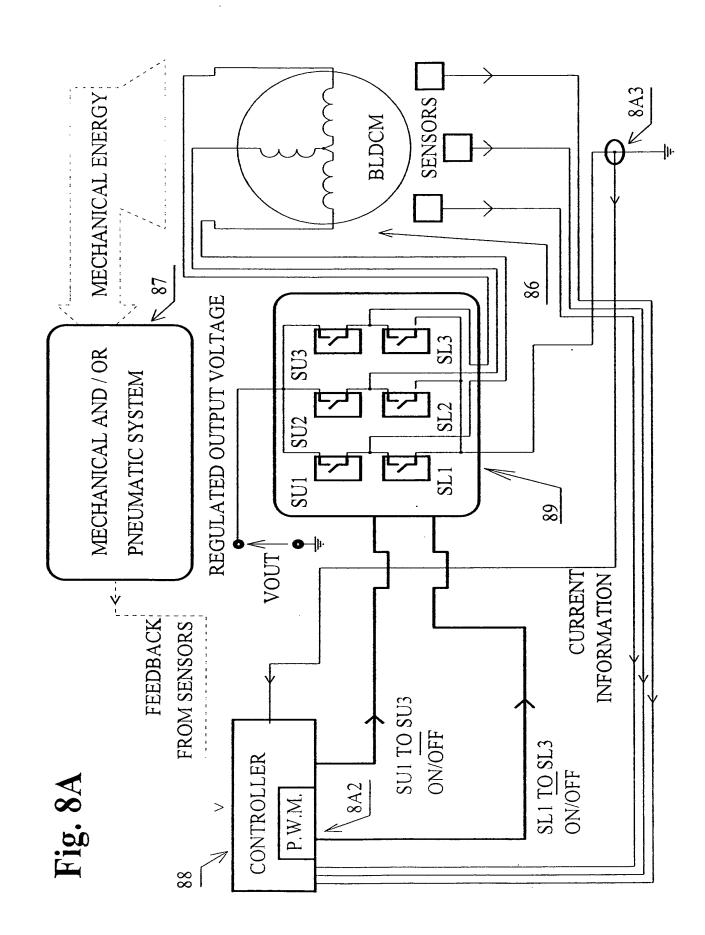


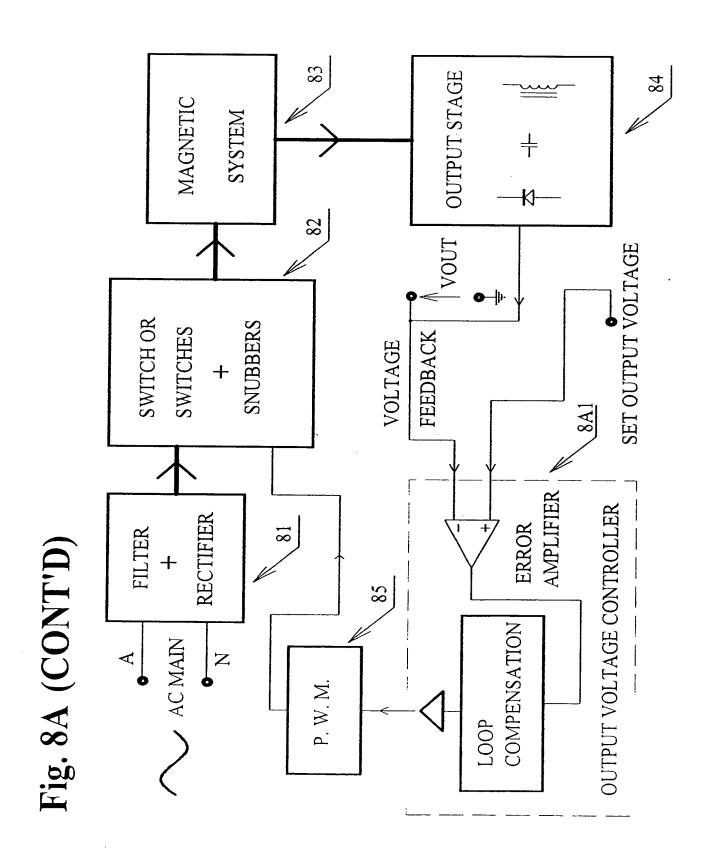


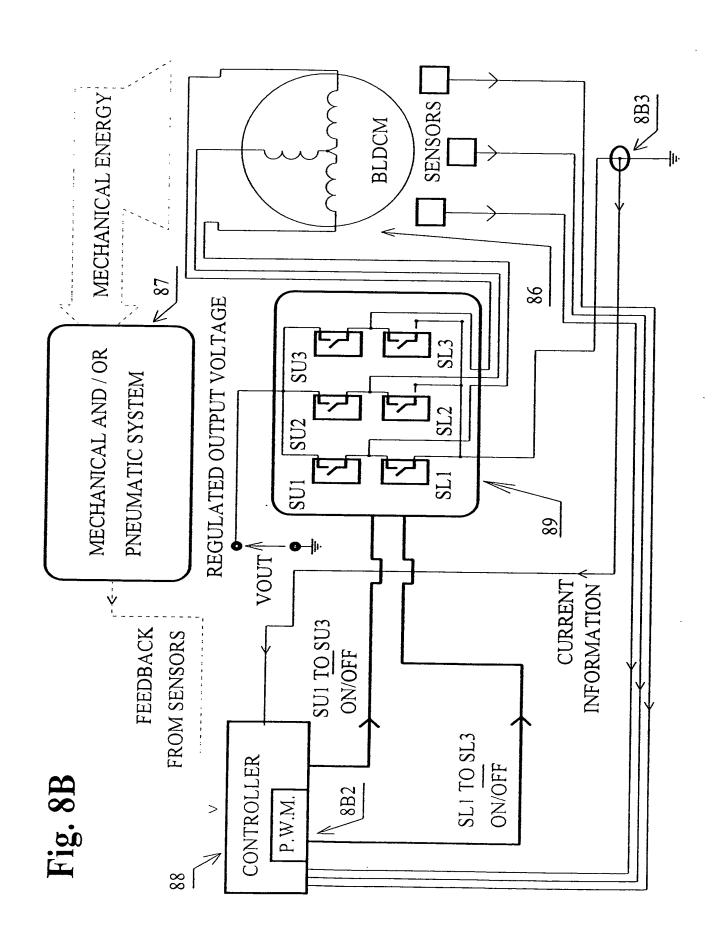
7K04/ <=> FIG_7K_1 I PFC COMMON CE LE 7K05 7K06 7K07 7K02 ON/OFF CURRENT INFO CI ₩ PHASE INFO PFC CONTROL PI FIG_7K_2 N AC MAINS = SET POINT AVERAGE CURRENT 7K03

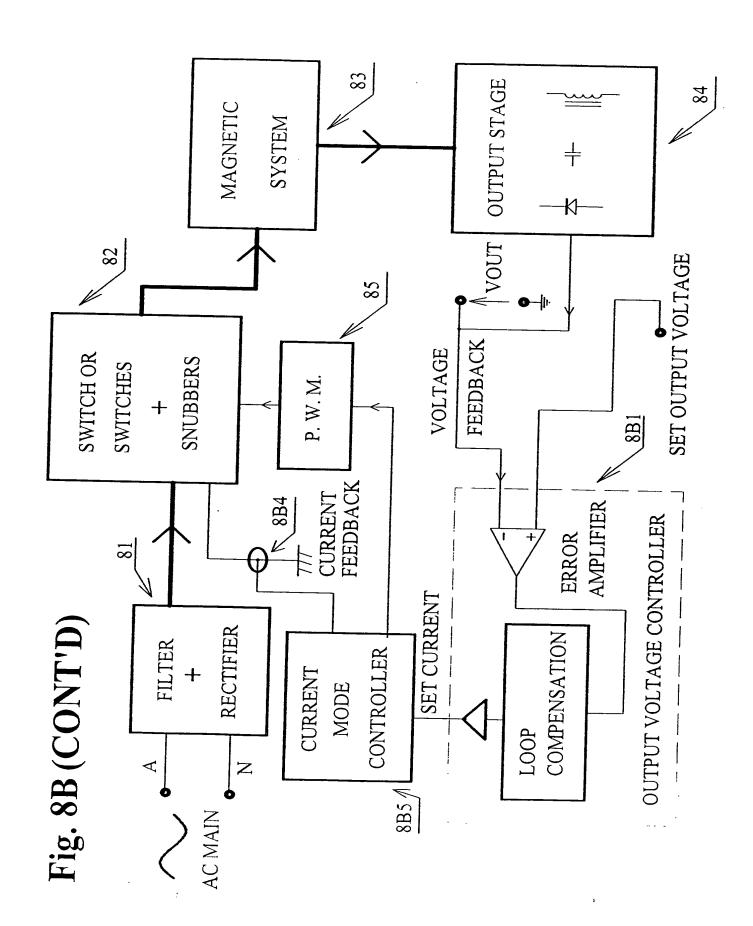
Fig. 7K (CONT'D)

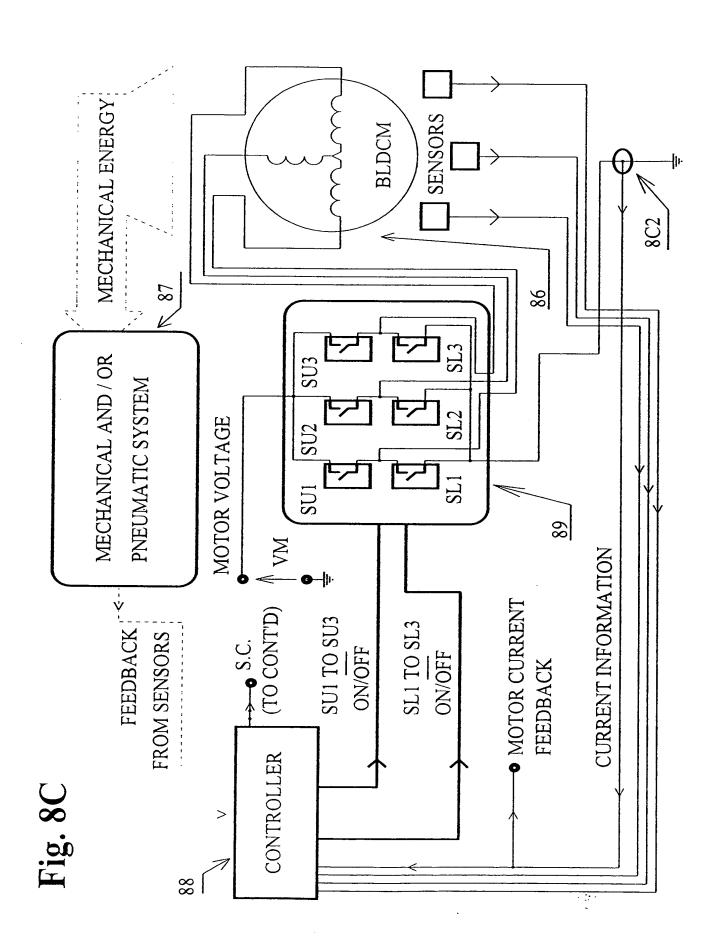


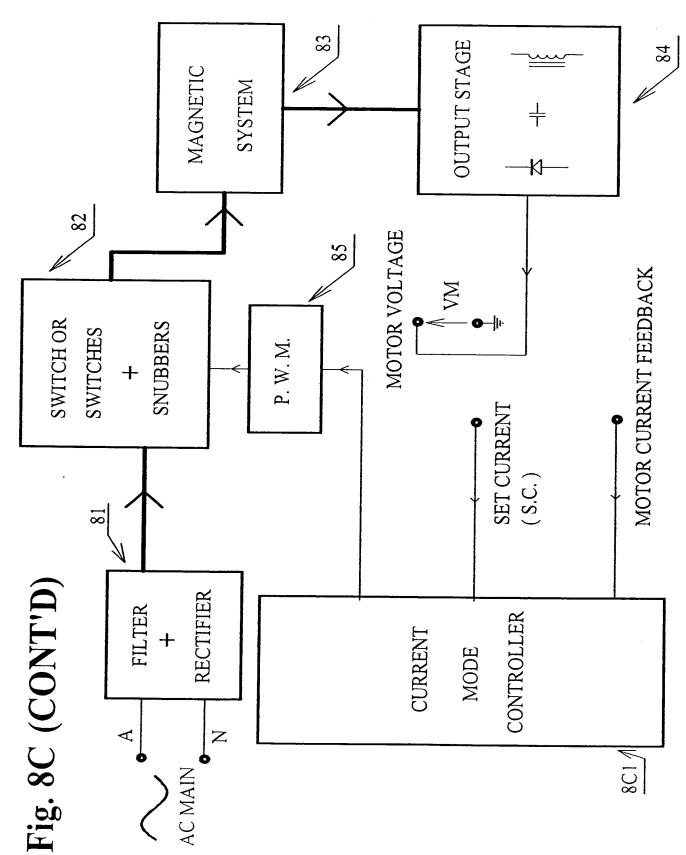


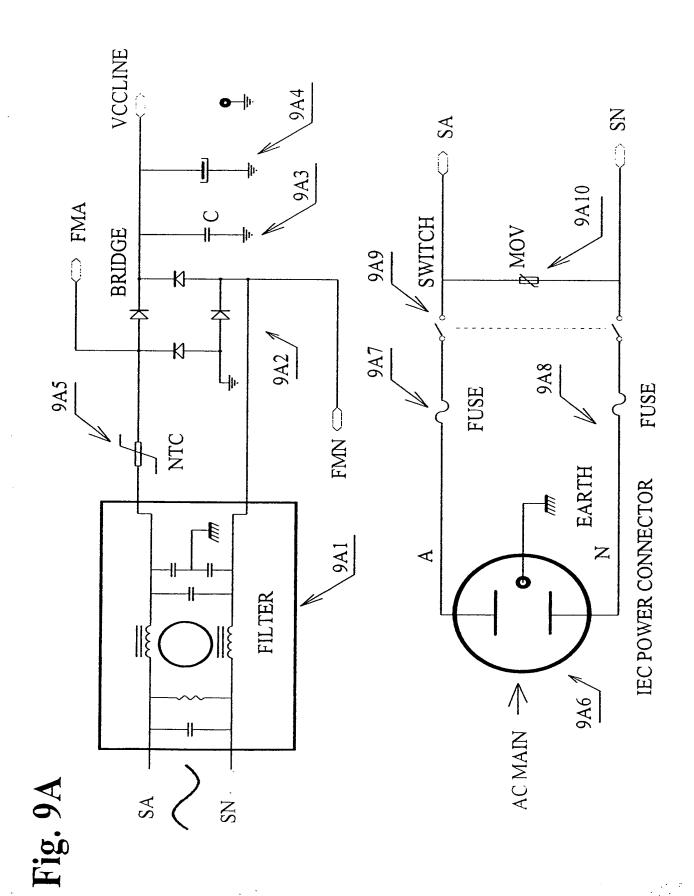


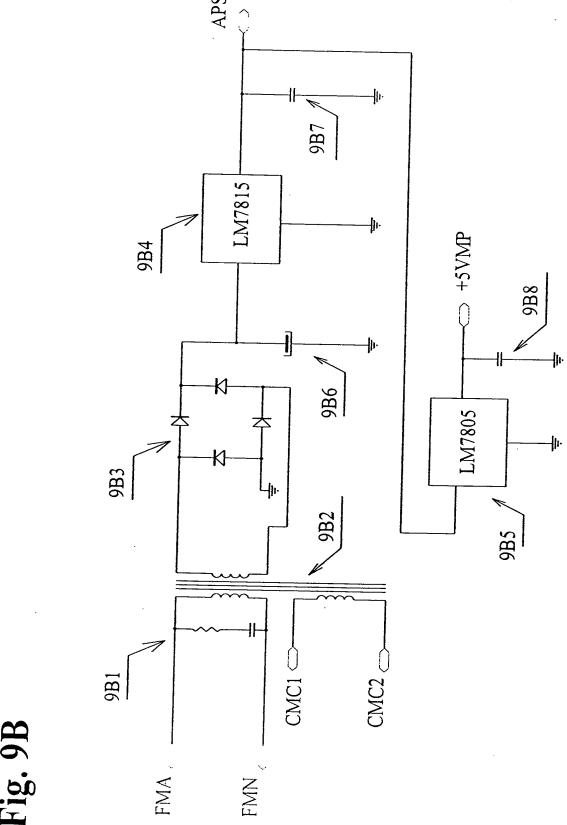












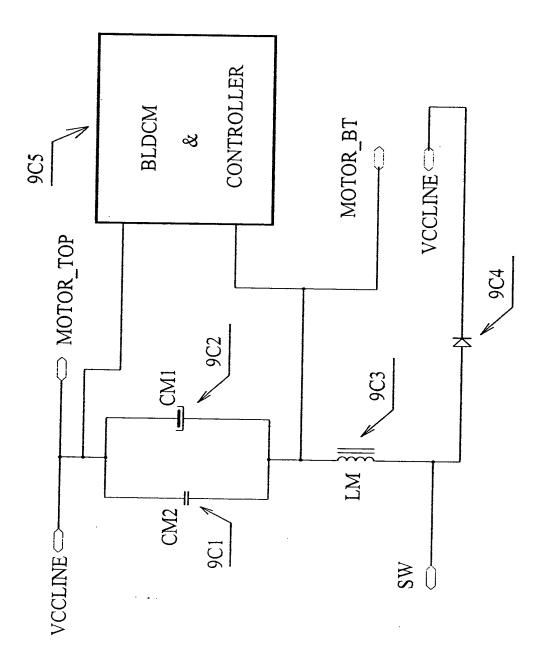
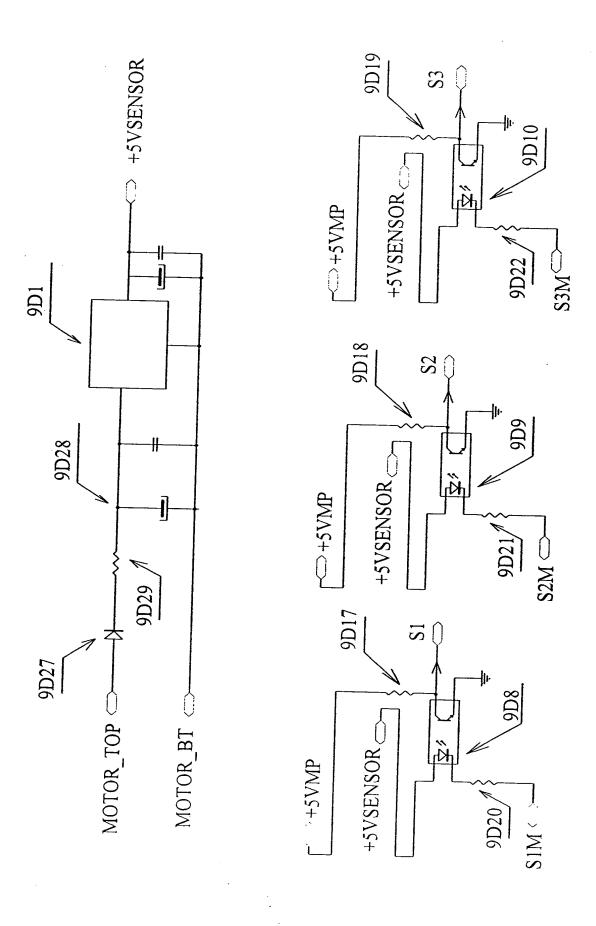
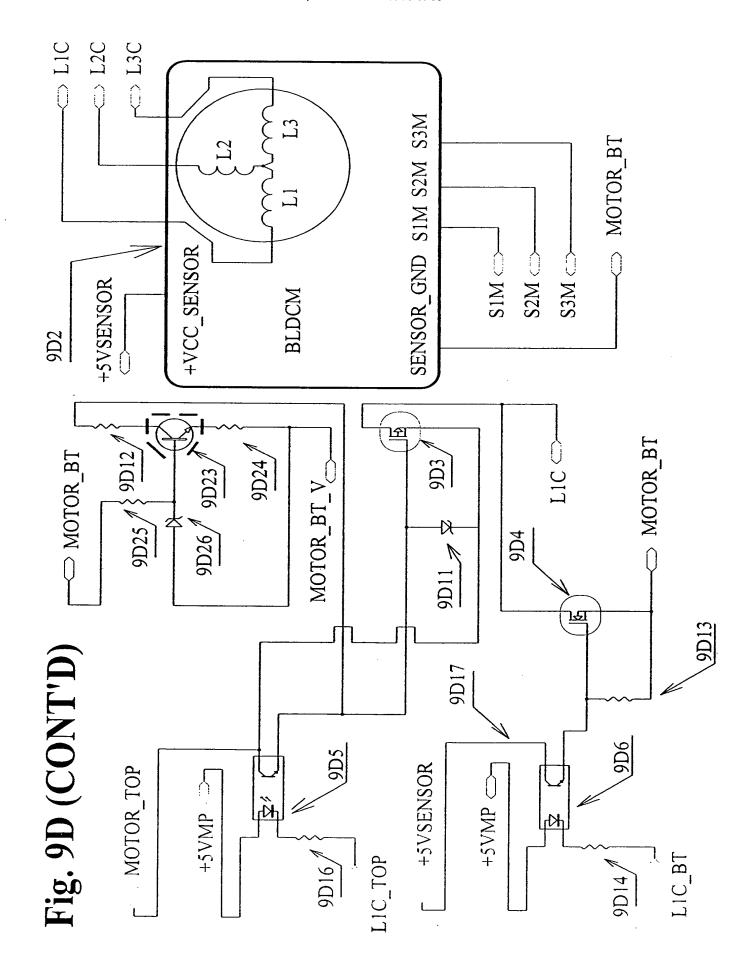
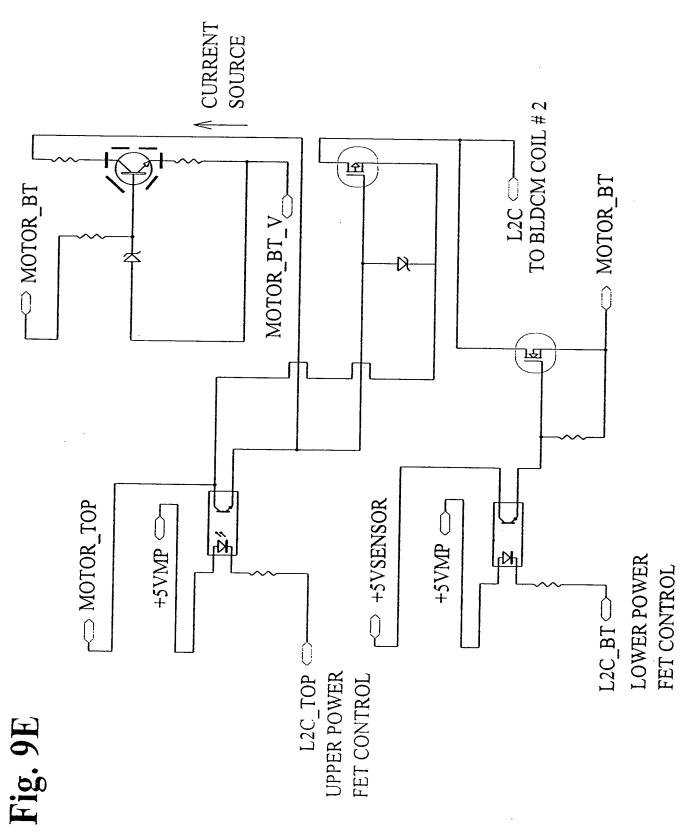


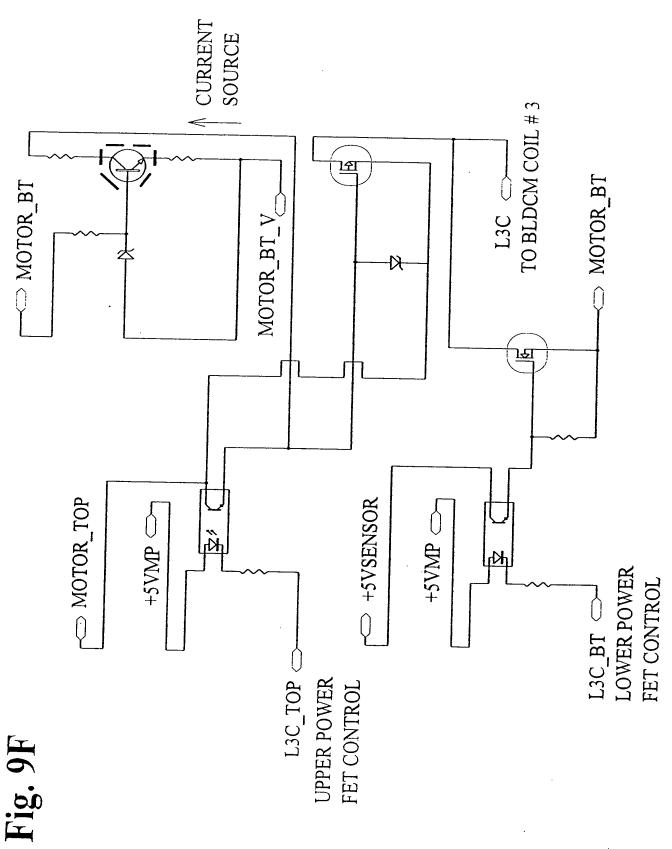
Fig. 9C

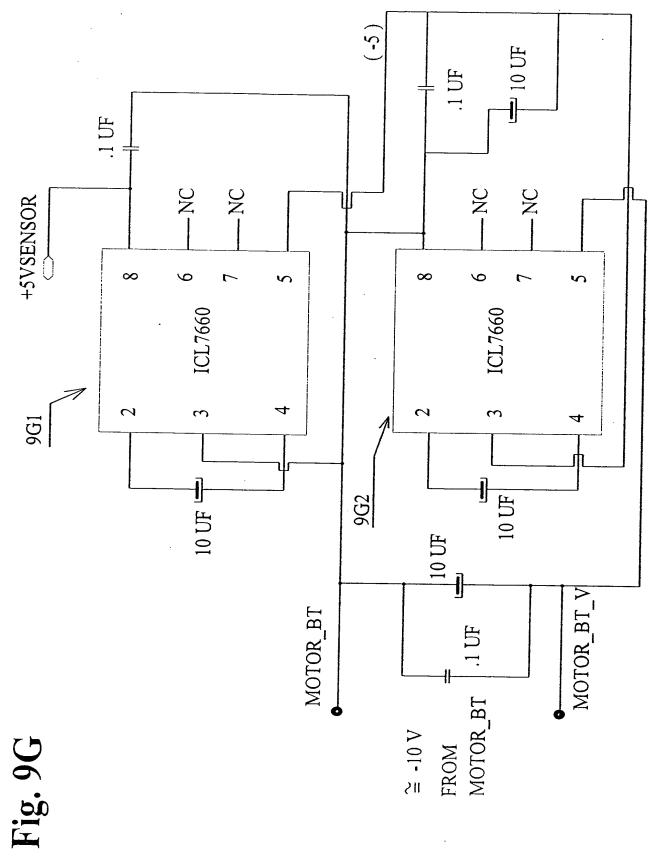
Fig. 9D

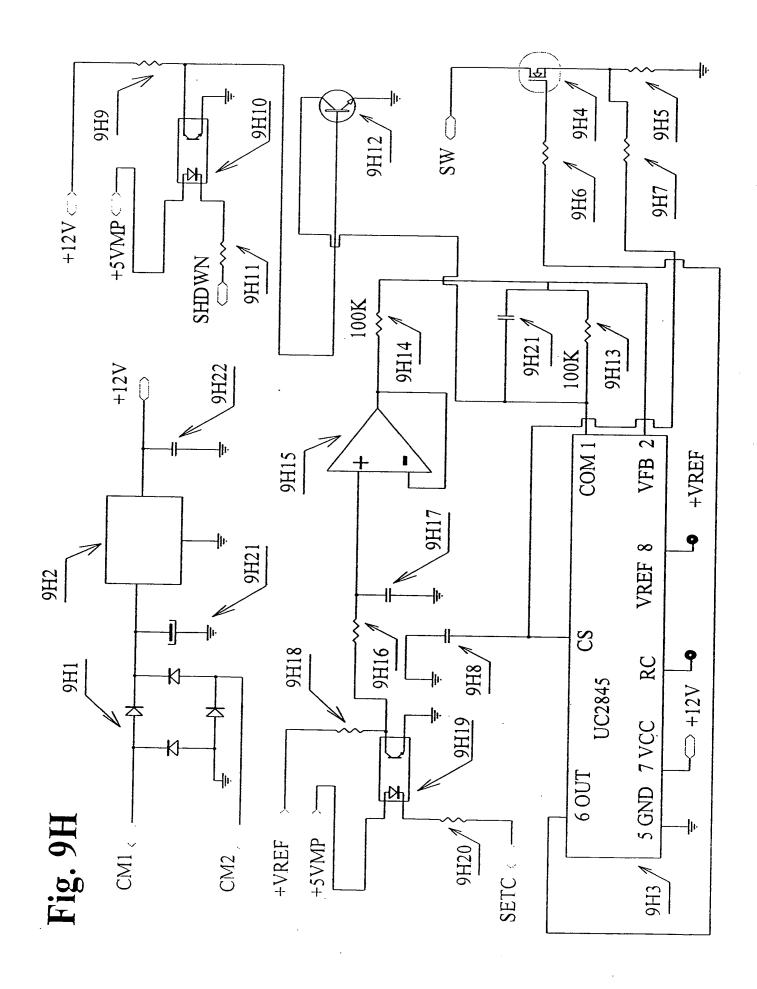


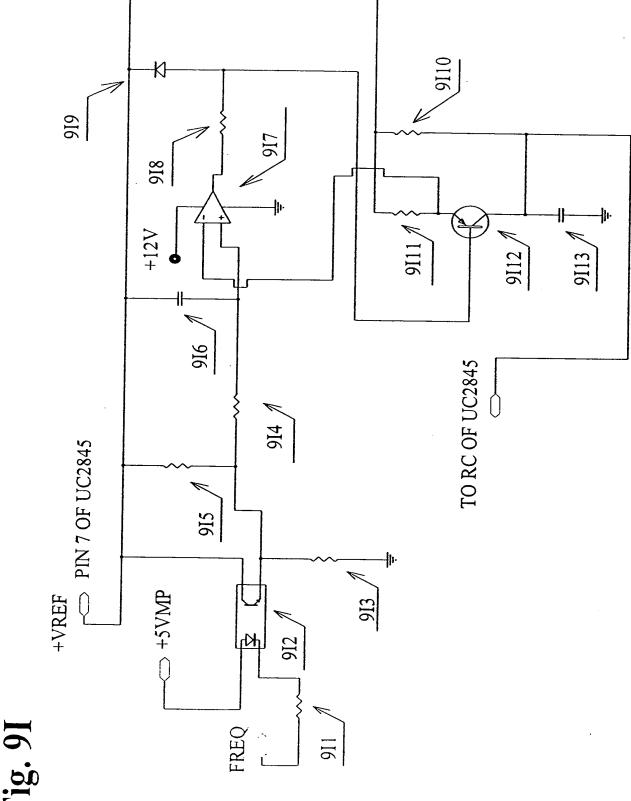


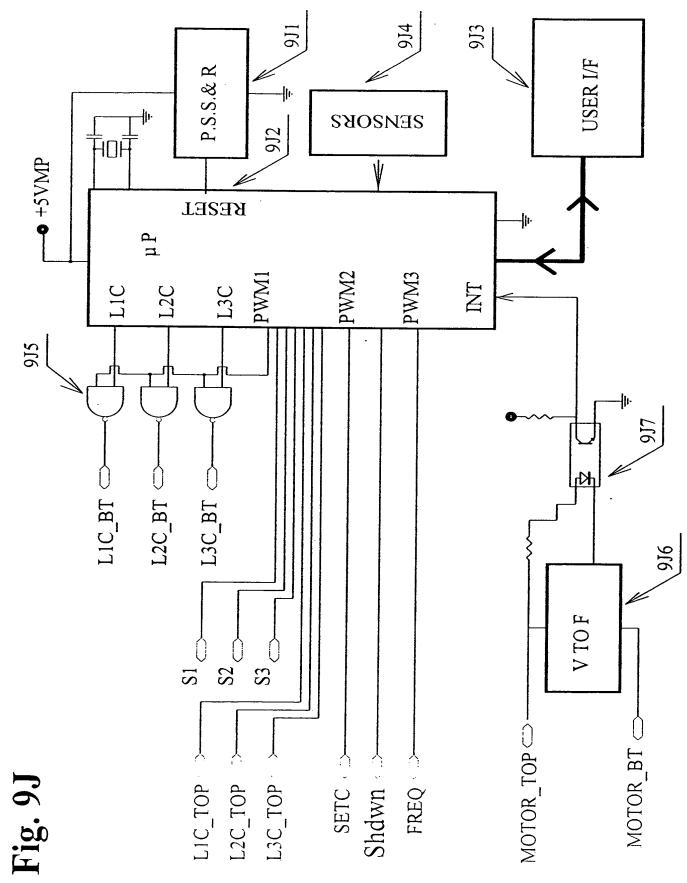












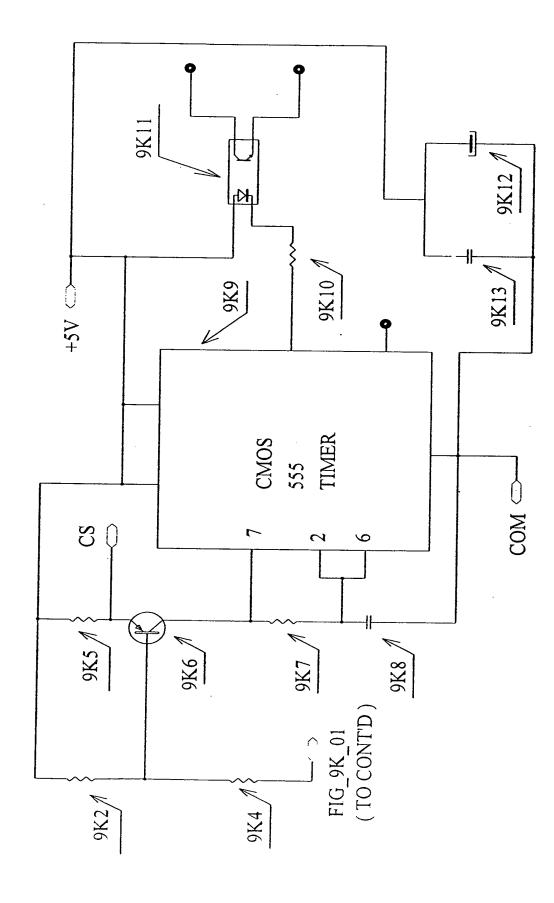
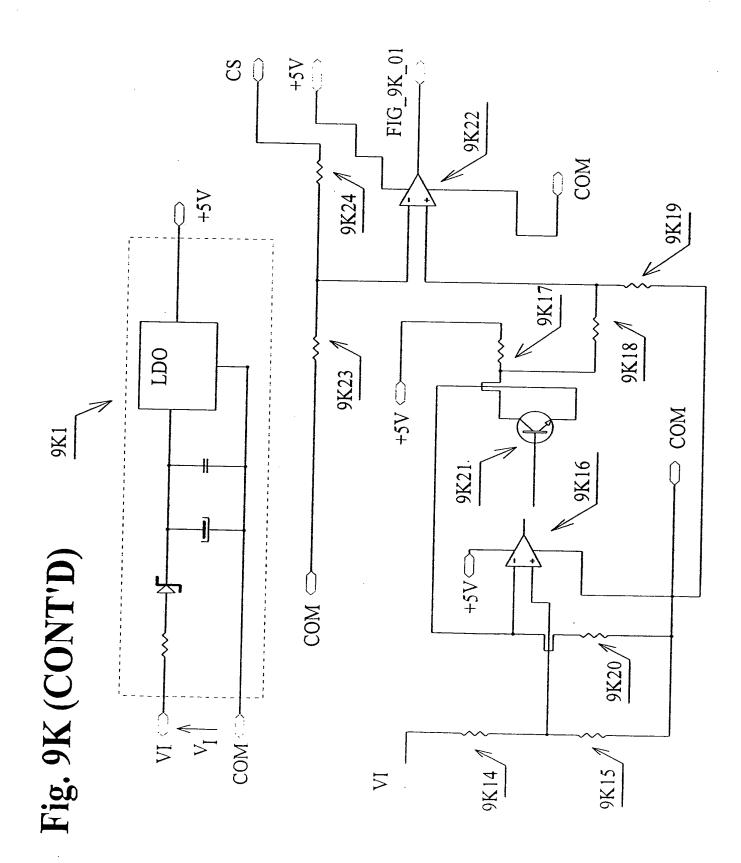
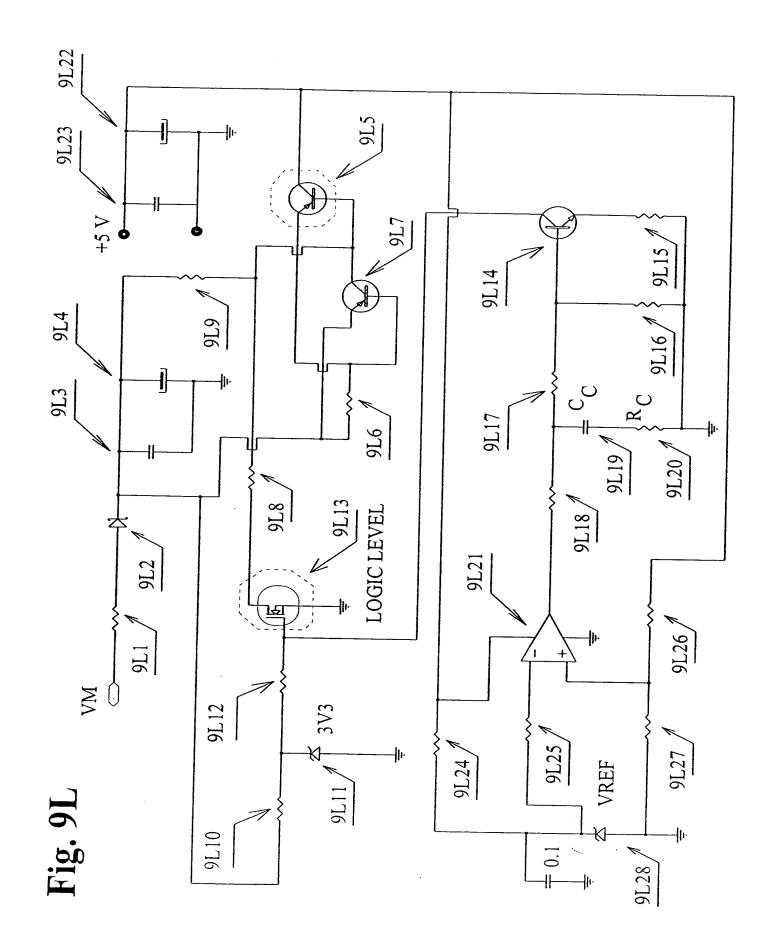
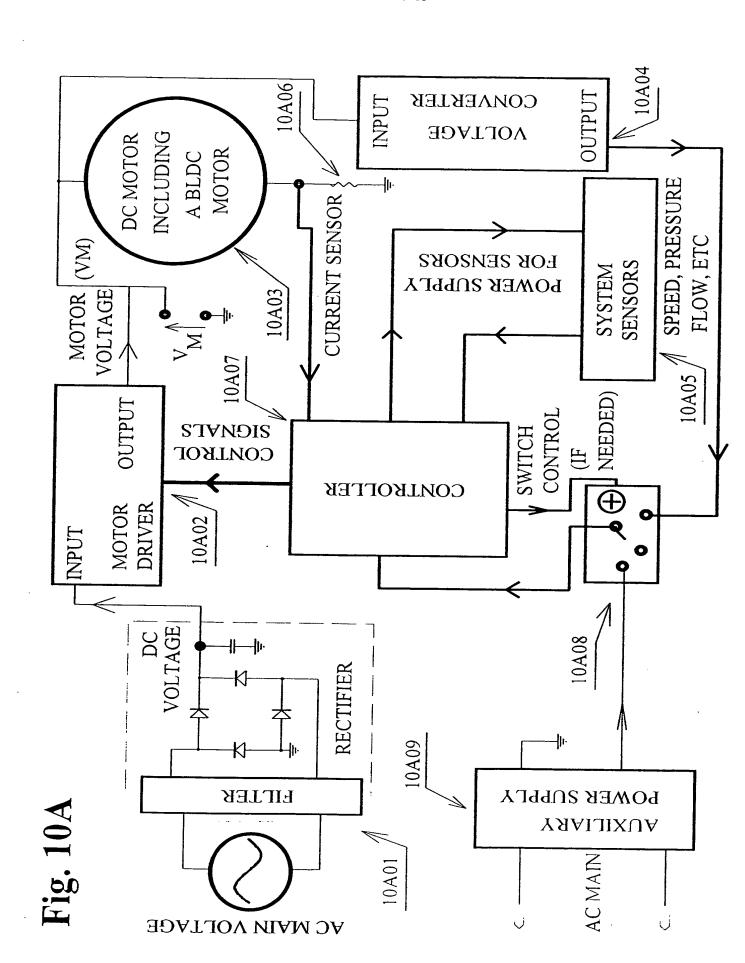
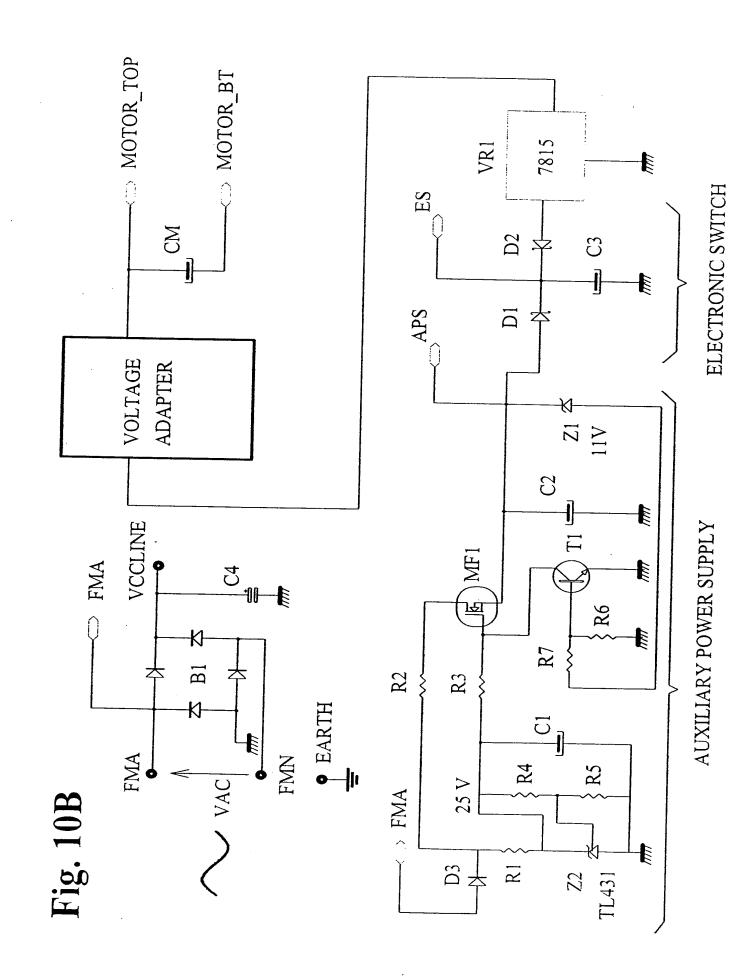


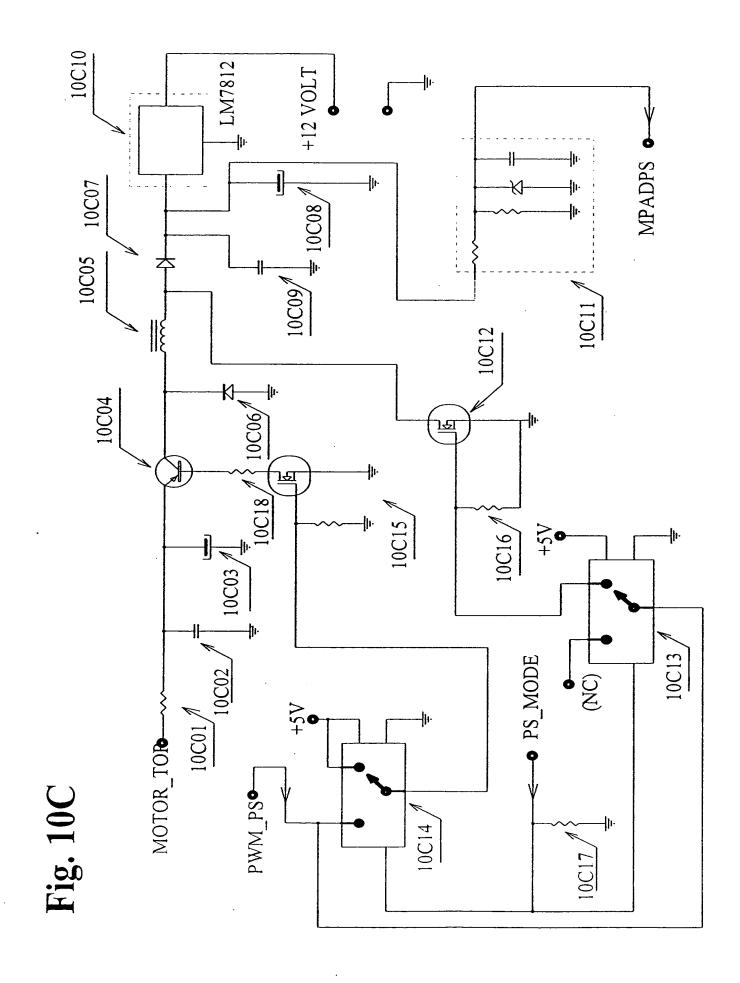
Fig. 9K

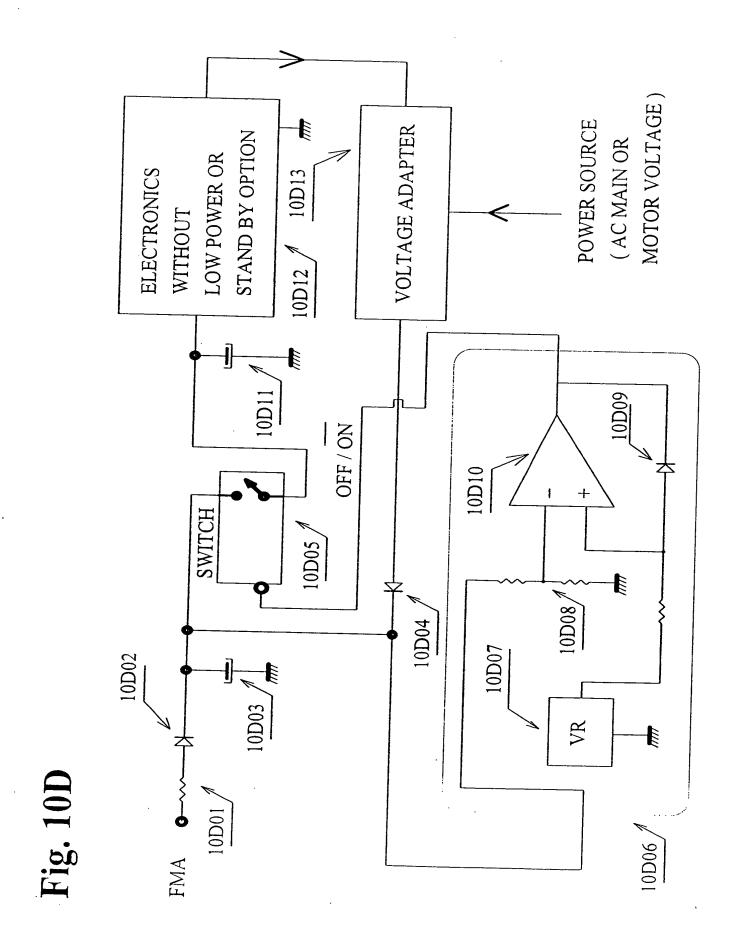


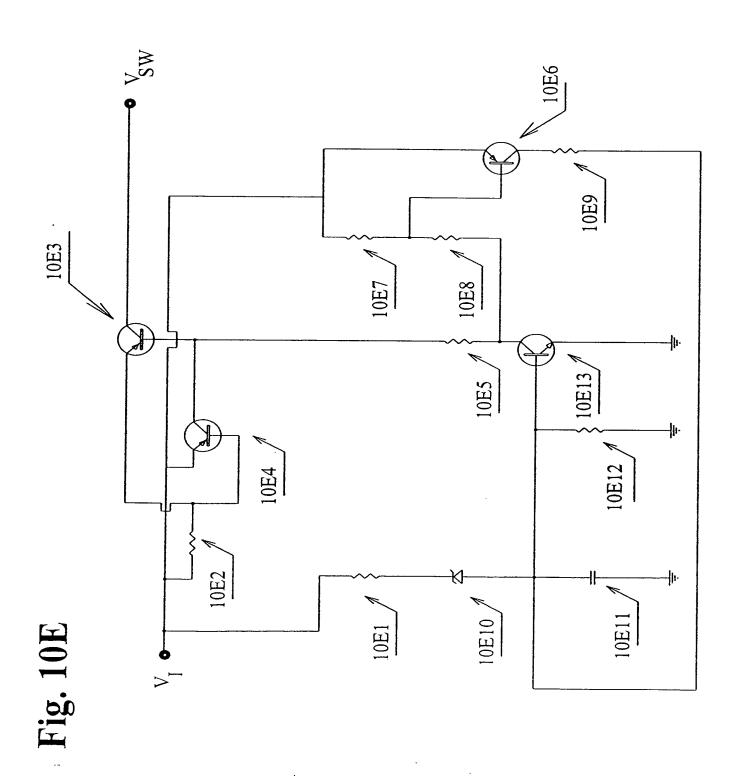


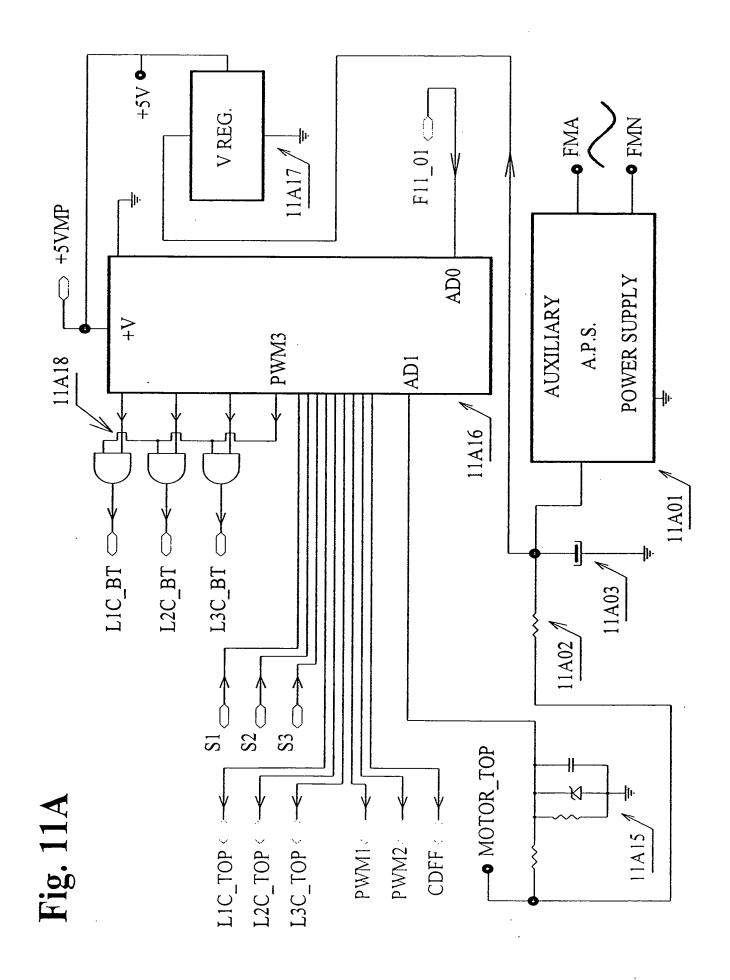


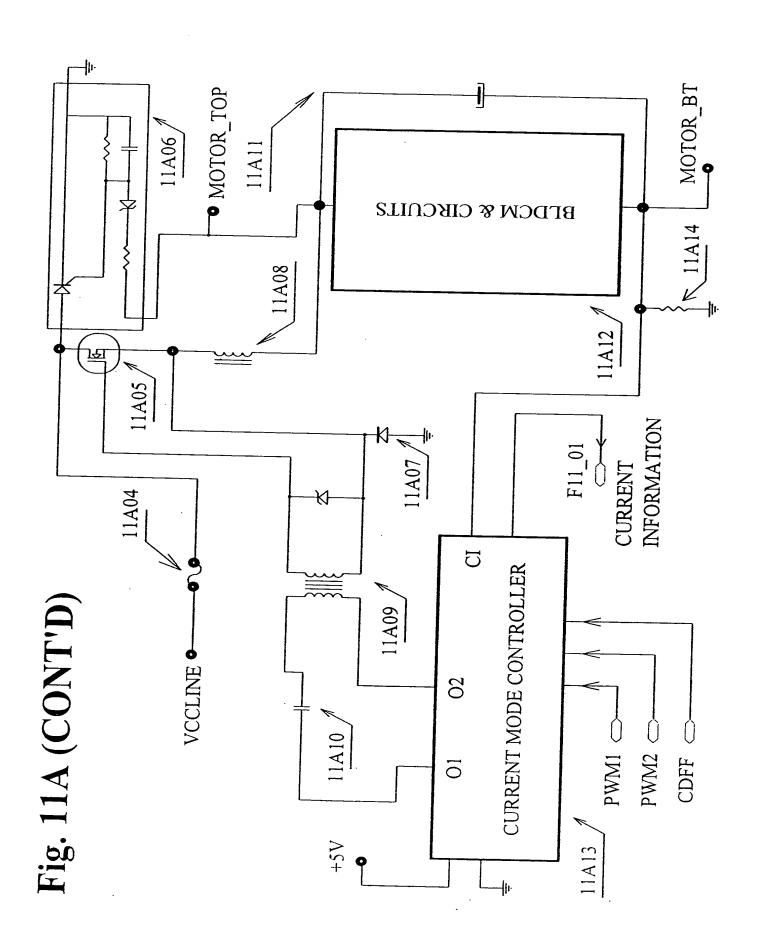


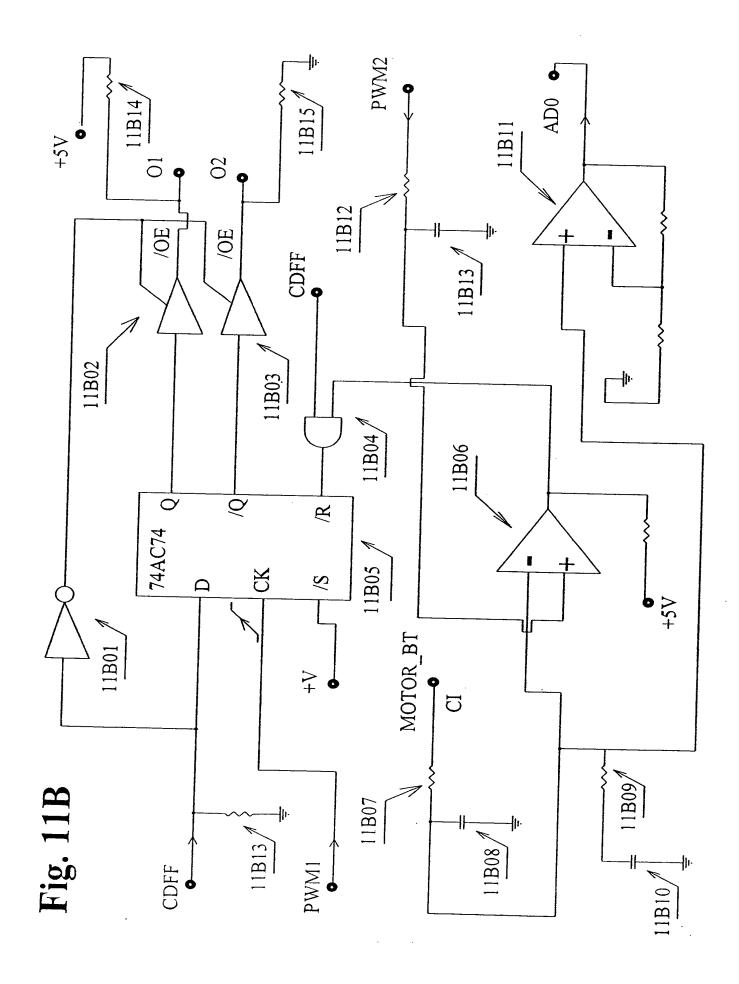


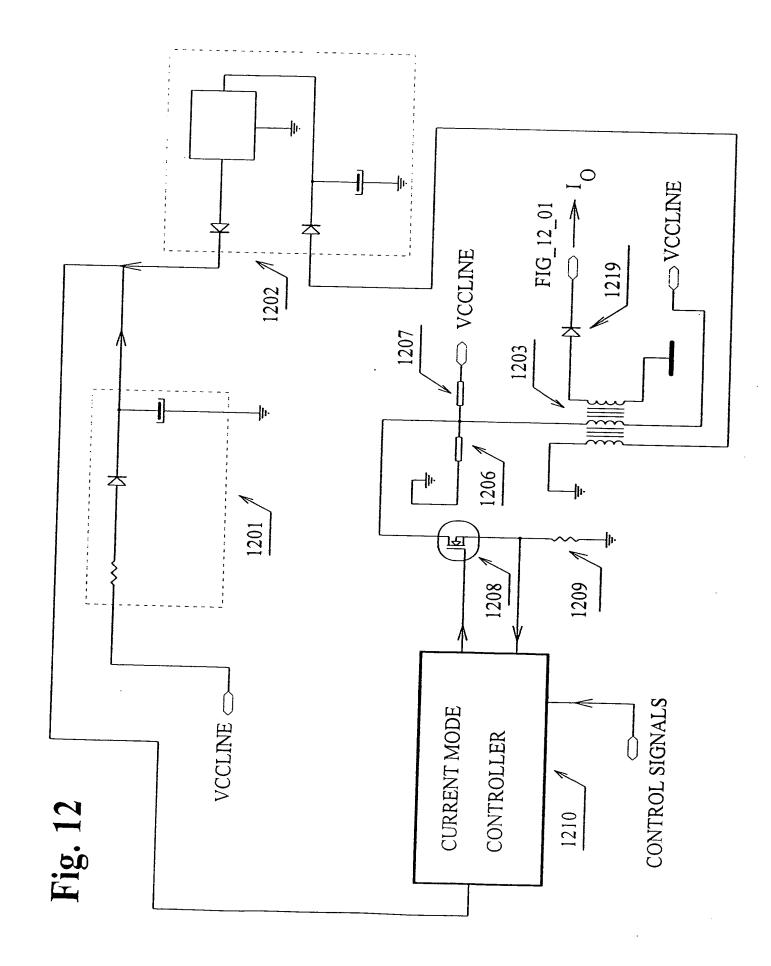


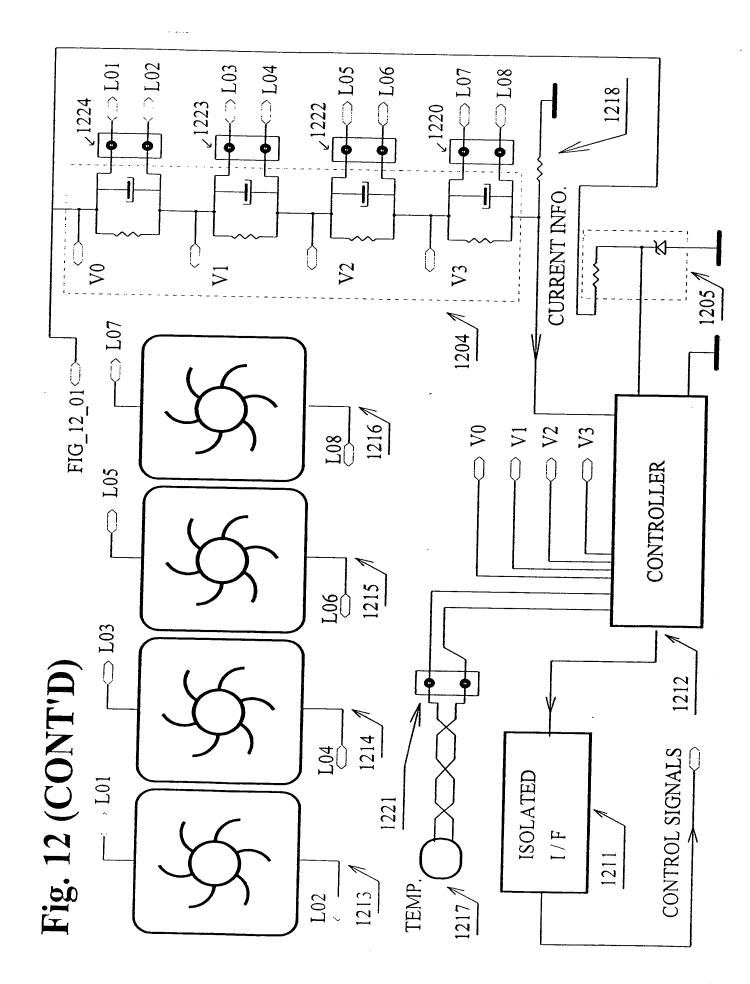


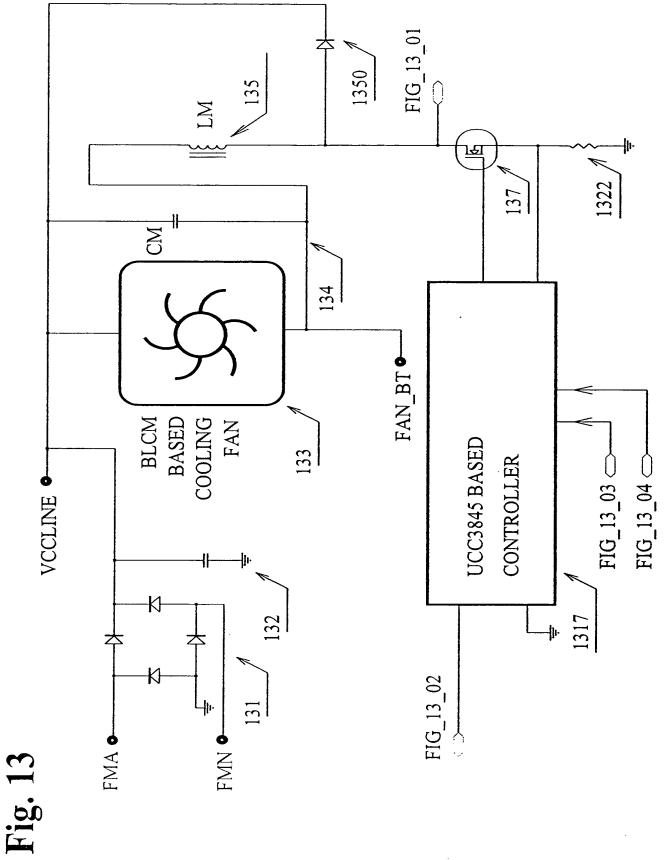


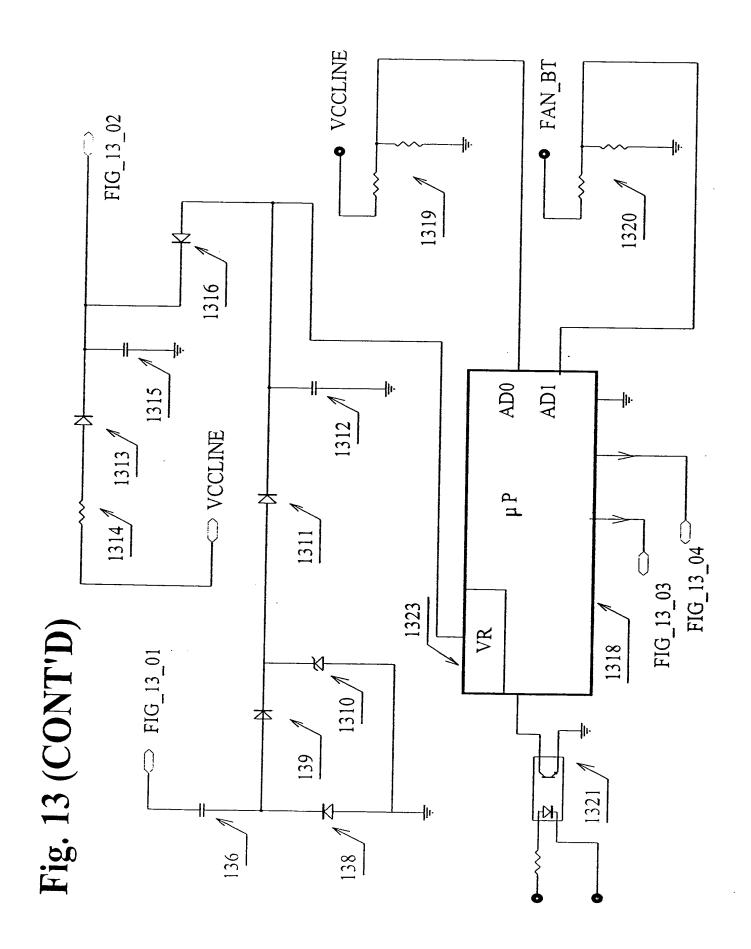


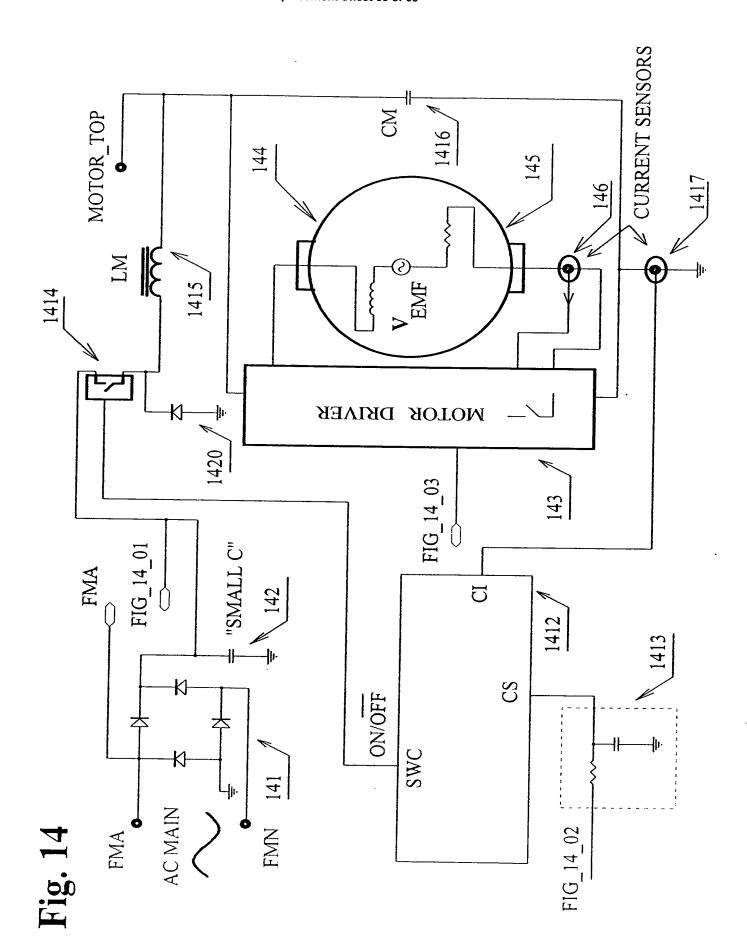


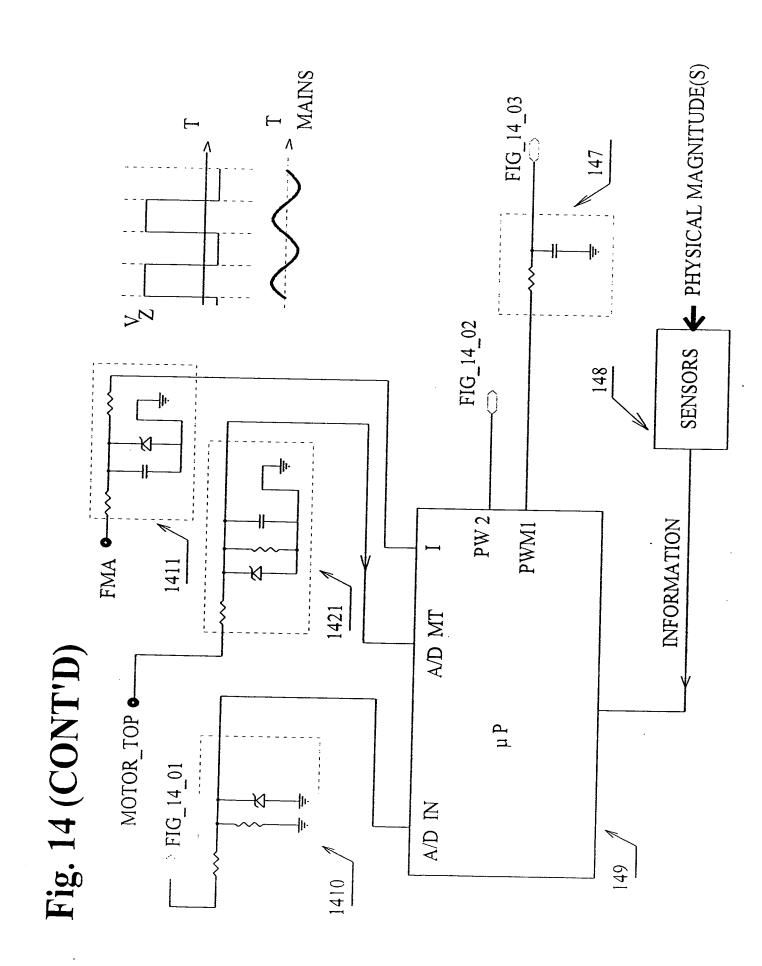


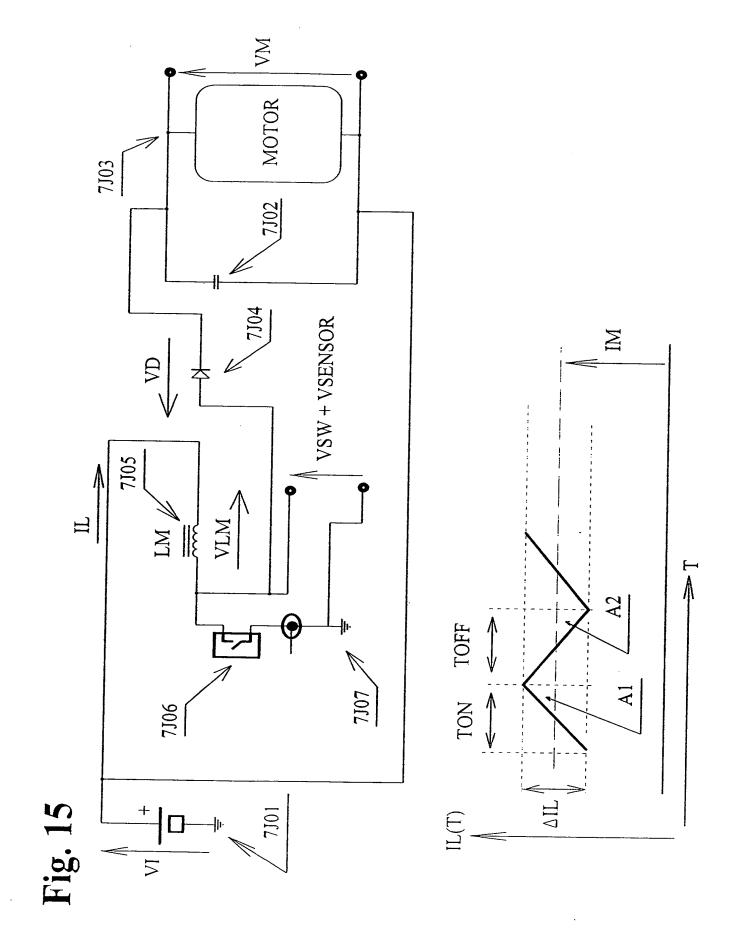












(1501)
$$V_M \cong I_M \cdot R_M + Vemf$$

(1502) Vem
$$f = Kv \cdot \omega M$$

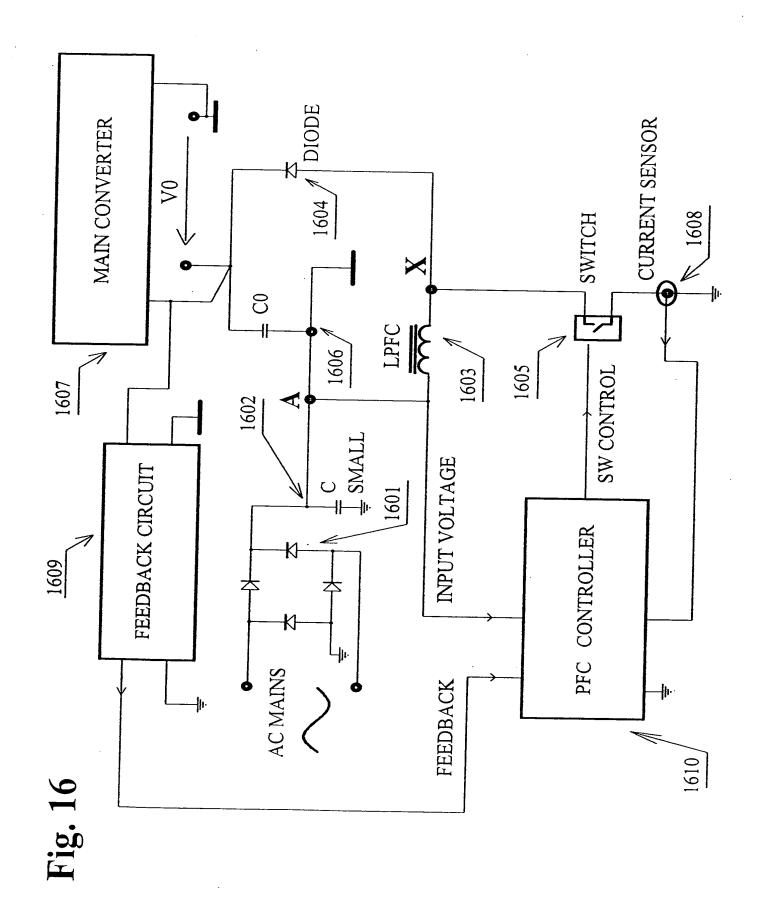
$$(1503) V_{SW} + V_{SENSOR} << V_{L}$$

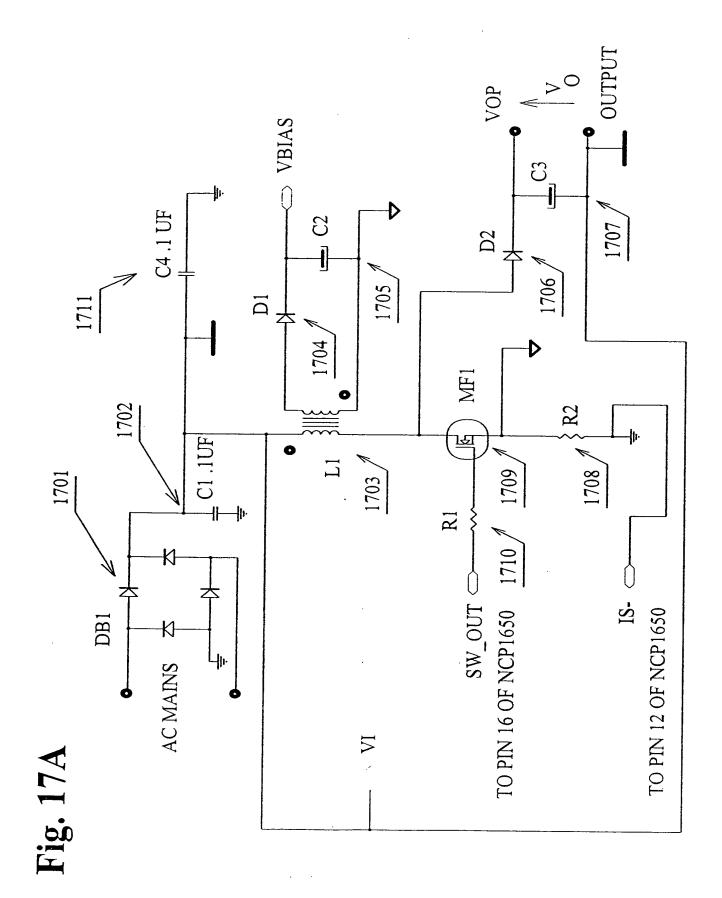
$$(1504) V_D << V_M$$

$$(1505) \Delta I_{L} = \frac{V_{I}}{L_{M}} \quad T_{ON} = \frac{V_{M}}{L_{M}} \quad T_{OFF}$$

(1506)
$$\frac{T_{ON}}{--} = \frac{V_{M}}{--}$$
 (FOR CONTINOUS CONDUCTION TOFF V_{I} MODE)

Fig. 15 (CONT'D)





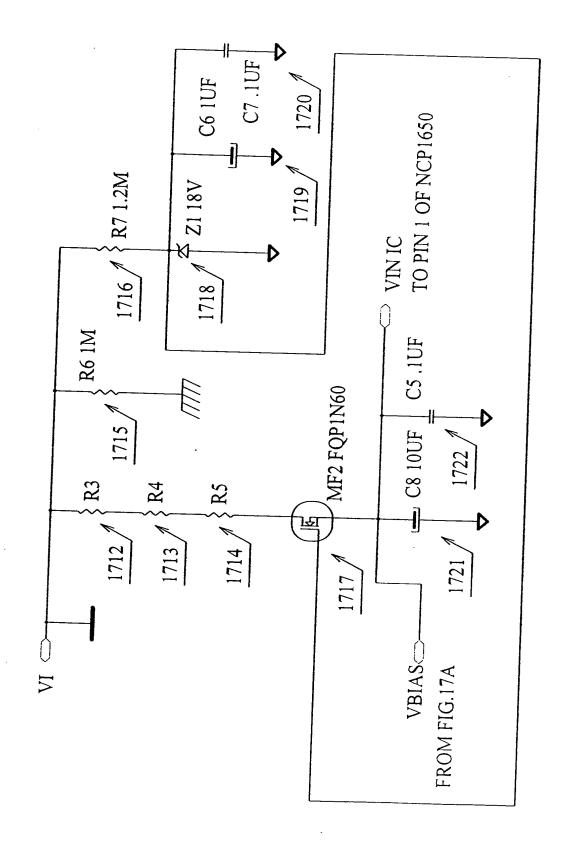


Fig. 17B



